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**AND**  
**U.S. AND FOREIGN INTELLECTUAL PROPERTY MATTERS**  
**May 11, 2004**

Assistant Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Re: Patent Application For: **High Reliability Solder joint with Multilayer Structure**  
Attorney Docket: TI-36575  
Serial No: 10/706147

Dear Sir:

Enclosed for filing please find the following items relating to the above-identified patent application:

- (1) Preliminary Amendment (corrected);
- (2) Transmittal Form; and
- (3) Postcards (2).

The Commissioner is hereby authorized to charge any additional fees which may be required to **Deposit Account No. 20-0668**. Please return the date-stamped postcards to the corresponding addresses as indicated. In the meantime, if you have any questions or comments concerning this matter, please call the undersigned. Otherwise, please accept the enclosed.

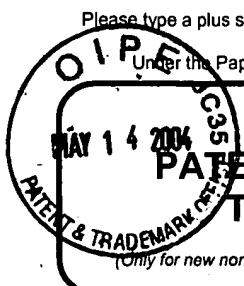
Michael T. Konczal  
Registration No. 45,475

c: Cindy Dees, Texas Instruments Incorporated

Please type a plus sign (+) inside this box ^

Approved for use through 10/31/2002. OMB 0651-0032  
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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# UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.

TI-36575

First Inventor

Kazuaki Ano

Title

High Reliability Solder joint with Multilayer  
Structure

Express Mail Label No.

## APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents

## ADDRESS TO:

Mail Stop Patent Application  
P.O. Box 1450  
Alexandria, VA 22313-14501. ☐ Fee Transmittal Form (e.g., PTO/SB/17)  
(Submit an original, and a duplicate for fee processing)2. ☐ Applicant claims small entity status.  
See 37 CFR 1.27.3. ☒ Specification (preferred arrangement set forth below) [ Total Pages **10** ]

- Descriptive title of the Invention
- Cross Reference to Related Applications
- Statement Regarding Fed sponsored R & D
- Reference to sequence listing, a table, or a computer program listing appendix
- Background of the Invention
- Brief Summary of the Invention
- Brief Description of the Drawings (if filed)
- Detailed Description
- Claim(s)
- Abstract of the Disclosure

4. ☐ Drawing(s) (35 U.S.C. 113) [ Total ☐ Sheets ]5. ☐ Oath or Declaration [ Total ☐ Pages ]

- a. ☐ Newly Executed (original or copy)
- b. ☐ Copy from a prior application (37 CFR 1.63(d))  
(for continuation/divisional with Box 18 completed)

i. ☐ **DELETION OF INVENTOR(S)**  
Signed statement attached deleting inventor(s)  
named in the prior application, see 37 CFR  
1.63(d)(2) and 1.33(b).

6. ☐ Application Data Sheet. See 37 CFR 1.767. ☐ CD-ROM or CD-R in duplicate, large table or  
Computer Program (Appendix)8. Nucleotide and/or Amino Acid Sequence Submission  
(if applicable, all necessary)a. ☐ Computer Readable Form (CRF)

b. Specification Sequence Listing on:

- i. ☐ CD-ROM or CD-R (2 copies); or
- ii. ☐ paper

c. ☐ Statements verifying identity of above copies

## ACCOMPANYING APPLICATION PARTS

9. ☐ Assignment Papers (cover sheet & documents(s))10. ☐ 37 CFR 3.73(b) Statement [ ☐ Power of Attorney  
(when there is an assignee) ]11. ☐ English Translation Document (if applicable)12. ☐ Information Disclosure Statement (IDS)/PTO-1449 [ ☐ Copies of IDS Citations ]13. ☒ Preliminary Amendment14. ☒ Return Receipt Postcard (MPEP 503)  
(Should be specifically itemized)15. ☐ Certified Copy of Priority Document(s)  
(if foreign priority is claimed)16. ☐ Request and Certification under 35 U.S.C. 122  
(b)(2)(B)(i). Applicant must attach form PTO/SB/35  
or its equivalent.17. ☐ Other:

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

☐ Continuation☐ Divisional☐ Continuation-in-part (CIP)Preliminary Amendment of prior application No: **10/706147**.

Prior application information:

Examiner

Group / Art Unit:

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

## 19. CORRESPONDENCE ADDRESS



Customer Number or Bar Code Label

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(Insert Customer No. or Attach bar code label here)



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Registration No. (Attorney/Agent)

45,475

Signature

Date

05/11/04



JPW

Serial No. 10/706147

Docket No. TI-36575

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Kazuaki Ano

Art Unit:

Serial No.: 10/706147

Examiner:

Filed: 11/12/2003

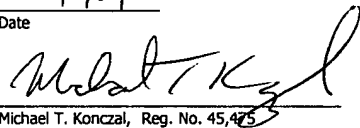
Docket: TI-36575

For: **HIGH RELIABILITY SOLDER JOINT WITH MULTILAYER STRUCTURE**

**PRELIMINARY AMENDMENT  
PURSUANT TO 37 CFR 1.121**

May 11, 2004

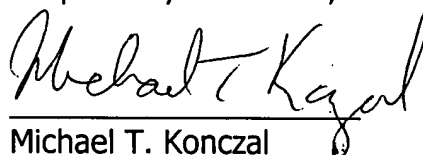
Assistant Commissioner  
for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

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|---|---|
| <b>MAILING CERTIFICATE UNDER 37 C.F.R. §1.8(a)</b> I hereby certify that the above correspondence is being deposited with the U.S. Postal Service as First Class Mail with the appropriate postage in an envelope addressed to: Assistant Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 by the person and on the date indicated below. |   |
| 05/11/04  |   |
| Date  |  |
| Michael T. Konczal, Reg. No. 45,475   |   |

**REMARKS**

Preliminary to examination of the above-referenced application, Applicant respectfully requests entry of the amendment submitted herewith, adding claims 34 through 60. No original claims have been amended. No new matter has been added to the application. Two independent claims and 25 dependant claims have been added. Withdrawal of any necessary fees from deposit account 20-0668 is authorized.

Respectfully submitted,



Michael T. Konczal  
Reg. No. 45,475